PATENT COOPERATION TREATY

PCT

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference		DOD EXIDERED A	THE STREET			
P1126PC10		FOR FURTHER AC	THON	See Form PCT/IPEA/416		
International application No.		International filing date	(day/month/year)	Priority date (day/month/year)		
PCT/US05/04630		14 February 2005 (14.02	2.2005)	14 February 2004 (14.02.2004)		
International Pat	International Patent Classification (IPC) or national classification and IPC					
PC: C07D 471/04(2006.01),487/04(2006.01);A61K 31/519(2006.01) USPC: 544/279,280;514/264.1,264.11,265.1						
Applicant						
IRM LLC	IRM LLC					
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.						
2. This	REPORT consists of a	a total of <u>4</u> sheets, inc	luding this cover sheet			
i		nnied by ANNEXES, co				
а. [nt and to the Internation				
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
b	(sent to the Interne	ational Bureau only) a t	otal of (indicate type a	nd number of electronic carrier(s))		
, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
4. This	report contains indicat	ions relating to the follo	wing items:			
\boxtimes		sis of the report				
	Box No. II Prio	ority				
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
		k of unity of invention		i		
\boxtimes	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
		tain documents cited	and explanations	supporting such statement		
	Box No. VII Cer	tain defects in the interr	national application			
	Box No. VIII Cer	tain observations on the	international applicati	on		
Date of submission of the demand		Date of completion o	f this report			
13 September 2005 (13.09.2005)			27 March 2006 (27 03 2006)			
Name and mailing	Name and mailing address of the IPEA/ US		27 March 2006 (27.03.2006) Authorized officer			
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents				ance Ford		
P.O. Box 1450 Alexandria, Virginia 22313-1450			Thomas C. McKenzie,	Ph.D. Janue Ford		
Facsimile No. (57)	Facsimile No. (571) 273-3201			72-1600		
orm PCT/IPEA/409 (cover sheet)(April 2005)						

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.	
PCT/US05/04630	

Box No. I Basis of the report	
1. With regard to the language, this report is based on:	
the international application in the language in which it was filed.	
a translation of the international application into English, which is the language of a translation furnished for the purposes of:	Э
international search (under Rules 12.3 and 23.1(b))	
publication of the international application (under Rule 12.4(a))	
international preliminary examination (under Rules 55.2(a) and/or 55.3(a))	
2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):	,
the international application as originally filed/furnished	
the description:	
pages 1-55 as originally filed/furnished pages* NONE received by this Authority on	
pages* NONE received by this Authority on	
the claims:	
pages 56-61 as originally filed/furnished	
pages* NONE as amended (together with any statement) under Article 19	
pages* NONE received by this Authority on	
pages* NONE received by this Authority on	
the drawings:	
pages NONE as originally filed/furnished	
pages* NONE received by this Authority on	
pages* NONE received by this Authority on	
a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.	
3. The amendments have resulted in the cancellation of:	
the description, pages	
the claims, Nos	
the drawings, sheets/figs	
the sequence listing (specify):	
any table(s) related to the sequence listing (specify):	
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).	
the description, pages	١
the claims, Nos	1
the drawings, sheets/figs	
the sequence listing (specify):	
any table(s) related to the sequence listing (specify):	
* If item 4 applies, some or all of those sheets may be marked "superseded."	
rm PCT/IPEA/409 (Box No. 1) (April 2005)	┛

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US05/04630

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1. Statement			-			
Novelty (N)	Claims	6 and 9	YES			
		1-5, 7, 8, and 10				
Inventive Step (IS)	Claims	6 and 9	YES			
	Claims	1-5, 7, 8, and 10	NO			
Industrial Applicability (IA)	Claims	1-10	YES			
	Claims	NONE	NO			
Claims 1, 2, 4, and 5 lack an inventive step Geterotsiklicheskikh Soedinenii). For reasons Claims 1-5, 7, 8, and 10 lack novelty under PC compound with RN 19144-66-2 fits formula Il Claims 1-5, 7, 8, and 10 lack an inventive step Ordzhonikidze). For reasons cited above. Claims 6 and 9 meet the criteria set out in PCT compound or use of these claims.	s cited above. CT Article 33(2) b with R1 = R2 o under PCT Art	as being anticipated by SU 194 phenyl, $X = N$, $R4 = H$, and ricle 33(3) as being obvious over	1829 (Ordzhonikidze). The n = 0. r SU 194829			
Claims 1-10 meet the criteria set out in PCT A laimed can be made or used in industry.	rticle 33(4), and	I thus have industrial applicabil	ity because the subject matter			

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Box No.	VIII	Certain	observations	on the	international	application
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The following observations on the claims of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claims 1-5 and 7-10 are objected to as lacking clarity under PCT Rule 66.2(a)(v) because of the claims 7-10 are not fully supported by the description. The description does not disclose the claimed invention in a manner sufficiently clear and complete for the claimed invention to be carried out by a person skilled in the art because: Applicants lack enablement for making any hydrates, solvates, isomers, or prodrugs. Preparing all these derivatives is an unpredictable art.

Claims 7-10 are objected to as lacking clarity under PCT Rule 66.2(a)(v) because of the claims 7-10 are not fully supported by the description. The description does not disclose the claimed invention in a manner sufficiently clear and complete for the claimed invention to be carried out by a person skilled in the art because: inhibitors of the Bcr-abl, Flt-3, Alk, and b-Raf enzymes have no artrecognized therapeutic use.

Form PCT/IPEA/409 (Box No. VIII) (April 2005)